

TKACHENKO, G.G.; KALACHEV, N.I., konetruktor.

Hydraulic press for removing pipe ends from heat exchanger grills.

Heftianik 2 no.12:24-25 D '57. (MIRA 11:2)

1. Machal'nik tsekha Mo.9 Muybyshevskogo neftepererabatyvayushchago mavoda. (Hydraulic presses)

KALACHEV: N.

"Problem of the Irrigation of the Bet-Pak-Dal Desert", Vestn. AN Kazakh SSR, No 5, (98) 49-55, 1953.

The author proposes a variation in the irrigation of the Bet-Pak-Dal desert by self-flow canal from the Ila River. This problem envisions the simultaneous use of the runoff from the rivers Ila and Chu in the power, irrigational, and transport system. (RZhGeol, No 5, 1954) SO: Sum No. 443, 5 Apr. 55

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010011-0"

Making a wat	er-power survey.	Izv.AN Kazakh	SSR. Sez	c.energ. (M	no.9:	
95-108 '55.	(KazakhstanVa	ter supply)		•		
			i.			

CHOKIN, Sh. Ch.; KAIACHEV, H.S.; KIKTENKO, V.A.

The problem of irrigating central Kasakhstan with water from the Irtysh. Vest. AM Karakh. SSR 11 no.6:15-24 Je '55.

(Kazakhstan--Irrigation)

(MIRA 8:8)

CIA-KDP86-00513R000620010011-0 KALACHEV, N.S.; LAVRENT'YEVA, L.D. Hypsometric index for the qualitative evaluation of water-power resourses. Izv.AN Kazakh.SSR.Ser.energ.no.11:62-69 156. (Hydrology)

> CIA-RDP86-00513R000620010011-0" **APPROVED FOR RELEASE: 03/20/2001**

KALACHEV, N.S., kandidat tekhnicheskikh nauk.

The problem of efficient irrigation and power utilization of river streams in dessicated regions. Vest.AN Kazakh.SSR 12 no.1:3-9
Ja '56. (MLRA 9:5)

1. Predstavlena deystvitel'nym chlenom AN KazSSR Sh.Ch. Chokinyn. (Irrigation) (Hydroelectric power)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010011-0"

8(6)

PHASE I BOOK EXPLOITATION

SOV/2083

Kalachev, Nikolay Stepanovich, Saveliy Yakovlevich Mayzel', Aleksandr Borisovich Reznyakov, and Shafik Chokinovich Chokin

Energetika Kazakhstana (Power Resources of Kazakhstan) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 222 p. Errata slip inserted. 1,300 copies printed.

Sponsoring Agency: Akademiya nauk Kazakhskoy SSR. Institut energetiki.

Ed. (Title page): Sh. Ch. Chokin, Academician, Kazakh SSR Academy of Sciences; Eds. (Inside book): L. S. Rzhondkovskaya and Yu. N. Kuznetsov; Tech. Ed.: P. F. Alferova.

PURPOSE: This book is intended for engineers, geographers, economists, and other persons interested in the potential and present power resources of the Kazakh Republic.

COVERAGE: The monograph consists of two parts: The first, based on factual data, reviews in detail the fuel, hydro and wind-power resources of Kazakhstan, the degree to which they have been studied, their distribution throughout the territory, their quantitative and qualitative characteristics, and also, their

Card 1/4

<u> Tokula salabut - Saali saabababahan saa daganbutas me</u>

PART II. FUNDAMENTAL PRINCIPLES FOR THE ELECTRIFICATION OF THE NATIONAL ECONOMY OF KAZAKHSTAN Ch. I. General Principles		•
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Ch. II. The Northern Power Region of Kazakhstan	109	
Ch. III. The Eastern Power Region of Kazakhstan	136	
Ch. IV. The Southern Power Region of Kazakhstan	157	
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Ch. VII. Fundamental Principles for a United a	188	
Kazakhstan Bibliography (main sources)	195	
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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010011-0"

30(5) AUTHOR:

概要性 [2]

SOV/31-59-3-2/14 Kalachev, N.S., Candidate of Technical Sciences

TITLE:

On the Rational Utilization of the Flow of the Ili River (O ratsional'nom ispol'zovanii stoka reki Ili)

PERIODICAL:

Vestnik Akademii nauk Kazakhskoy SSR, 1959, Nr 3,

pp 24-31 (USSR)

ABSTRACT:

This article is a resume of a report delivered by the author at a conference of Red Chinese water-economy organizations in Peking on 15 August 1958. It deals with the possibilities of utilizing the high water discharges of the rivers of the Ili Basin for electrical power and irrigational purposes. The Ili Basin encloses 162,000 sq km, of which about 100,000 sq km belong to the mountainous part of the basin. The average discharge of the river per second is 472 cbm (annual flow 14.9 billion cbm). The general fall of the river from the sources (Kunges River) to the mouth is 2,650 m, from the confluence of the rivers Kunges and Tekes to the mouth 460 m. Within the borders of the Soviet

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SOV/31-59-3-2/14

On the Rational Utilization of the Flow of the Ili River

Union it has 190 m fall over the 766 km of the last section. The water discharge along the Soviet river section does not vary very much. Downstream from the mouth of the border affluent Khorgos, it is 376 cbm/s, on the lower course (at landmark Ush-Dzharma) it is 464 cbm/s. No data is available on the water discharge on Chinese territory. According to the author's estimate, it gradually increases from 46 to 290 cbm and more. These figures show, that the flow is essentially formed on chinese territory. The Soviet section of the river fulfills the function of a transit of the flow. The abundance of water of the rivers of the basin and their considerable fall create a huge electric power potential. The total resources of the Ili Basin are estimated at an average annual capacity of 4.1 million kw (or 36.4 billion kwh of electric energy per year). Of this capacity 2.4 million kw are concentrated on Red Chinese territory, while 1.7 million kw are the share of the Soviet Union.

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On the Rational Utilization of the Flow of the Ili River

The economical utilization of the flow in the Ili Basin till now has been very low. The existing Soviet irrigation systems utilize only 1.7 billion cbm of water per year, which represents little more than 10% of the water reserve. As to power production, the utilization of the rivers is still in embryo. Future planning has to consider two different problems: the utilization of special sections of the rivers for power production, and the utilization of the rivers for complex systems of irrigation and power engineering. The first problem can be resolved only in the mountainous regions. Complex systems of irrigation and power engineering are recommended for the foothill region with its extensive tracts of arable land. This region comprises the end section of the affluents and the middle course of the river down to the beginning of the delta. The power potential of the basin is divided between the two zones in the following way: zone of exclusive power engineering - 49%, zone of

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SOV/31-59-3-2/14

On the Rational Utilization of the Flow of the Ili River

complex systems of irrigation and power engineering - 51%. The Kapchagayskaya GES (Kapchagay Hydroelectric Power Plant) will be built seventy km north of Alma-Ata within the next few years. The construction of this plant will help to resolve the irrigation problem of the area adjacent to the lower course of the River. Some more plants will be necessary to realize the program of irrigating or seasonal flooding of 1 million hectares in addition to the already irrigated area of 500,000 ha in the basin. The solution of this program will require joint Soviet-Red Chinese cooperation, because 400,000 ha of this prospective area are located on Red-Chinese territory (see table 3). According to a new irrigation system, which was developed by Dokuchayev, Kostychev, Vil'yams, V.A. Shaumyan and S.L. Mirkin, it will be possible to supply a norm of 3,000 cbm of water to each hectare of land. In view of the annual flow of 14.9 billion cbm, it can be assumed, that in the case of a realization of the aforesaid program, the river

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010011-0"

50V/31-59-3-2/14 On the Rational Utilization of the Flow of the Ili River

still will have a surplus flow of about 10 billion cbm per year. At present, the Institut energetiki (Institute of Power Engineering) of the Kazakh AS has completed preliminary investigations concerning transit of the Ili river flow to the Chu river Basin. This project will permit irrigation and flooding in the Betpak-Dale Desert over an area of 3.5 million ha and a simultaneous production of more than 2 billion kwh of electric energy per year by the power stations to be built on the new canal. This project also opens the possibility of a new water communication artery on the route Ili-Chu-Syr-Dar'ya. The author urgently recommends close cooperation between the Kazakh and the Red Chinese academies of sciences. There are 4 maps and 3 tables.

Card 5/5

BUSALAYEV, I.V.; KAIAOHEV, N.S.

Blements of the morphometric analysis of river valleys.

Igv.AN Kamakh.SSR Ser.energ. no.2:3-14 '60.

(MIRA 13:7)

(Water supply) (Physical geography) (Valleys)

KALACHE	ev, N.S.		.	
	Principal the rivers 200 '60.	basis for the overall use of to sof Kazakhstan. Trudy Inst. (KazakhstanWater power)	energ. AN, Kazakh. SSR 2:193- (MIRA 15:1)	
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KAIACHEV, N.S., kand.tekhn.nauk; LAVRENT'YEVA, L.D., kand.tekhn.nauk

New data on hydroelectric power resources in Kazakhstan. Vest.
AN Kazakh.SSR 18 no.11:19-28 N '62. (HIRA 15:12)

(Kazakhstan-Hydroelectric power)

KALACHEV, N.S.

Establishment of rational limits for regulating runoff. Probl. gidroenerg. i vod. khoz. no.1:101-119 163.

System of the characteristics of annual uneven runoff of rivers. Ibid.:120-137 (MIRA 16:12)

1. Institut energetiki AN KazSSR.

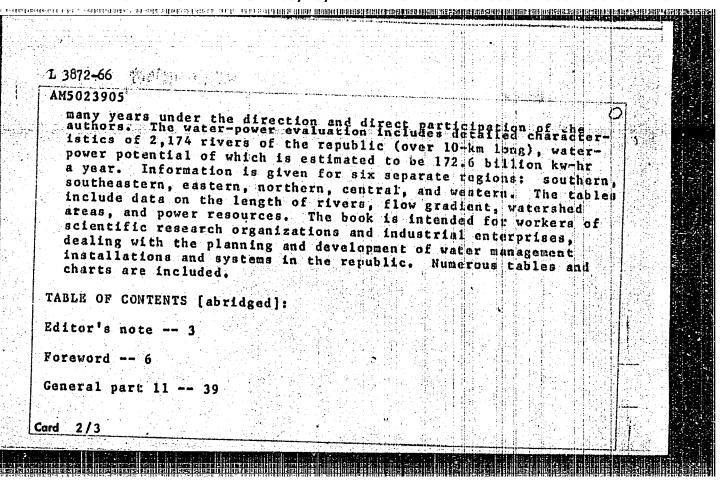
KALACHEV, Nikolay Stepanovich; LAVRENT YEVA, Lyudmila
Dmitriyevna; CHOKIN, Sh.Ch., akademik, red.; FOGOZHEV,
A.S., red.; GLAZYRINA, D.M., red.

[Cadastral survey of water-power resources of the rivers of the Kazakh S.S.R.; potential resources] Vodnoenerge-ticheskii kadastr rek Kazakhskoi SSR; potentsial nye resursy. Alma-Ata, Nauka, 1965. 706 p. (MIRA 18:7)

1. Akademiya nauk Kazakhskoy SSR (for Chokin).

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	Kalachev, Nikolay Stepanovich; Lavrent'yeva, Lyubov' Dmitriyevna
	An evaluation of the water power capacity of rivers of the Kazakh S.S.R.; potential resources (Vodnoenergeticheskiy kadastr rek
	Kazakhskoy SSR; potentsial nyye resursy) Alma-Ata, Izd-vo "Nauka"
	1965 706 p. 11 lus., tables, fold. maps. (At head of title:
: - : :	Akademiya nauk Kazakhskoy SSR. Gosudarstvennyy komitat po
	energetike i elektrifikatsii SSSR. Institut energetiki) 1350 copies
	princed.
,	TOPIC TAGS: hydrographic survey, hydrology, water management, hydro-
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	PURPOSE AND COVERAGE: Study of water-power resources in the Kazakh-
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	region of Kazakhstan was undertaken. The present monograph summarizes the results of the work of the institute, conducted over
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YAKIMOVICH, V., inzh.; MAGONIN, P.; SHELEST, S.; OSNOVIKOV, G.; KALACHEV,
O., inzh.; DOKTORMAN, M.; ZHITYAYEV, S.; FARBER, A., inzh.

Suggestions of efficiency operators introduced at grain procurement stations and grain-milling enterprises. Muk.-elev. prom. 25. no.4:23-29 Ap 159. (MIRA 13:1)

1.Ministerstvo khleboproduktov Kazakhskoy SSSR (for Yakimovich).
2.Chelyabinskoye upravleniye khleboproduktov (for Magonin).
3.Glavnyy inzhener Novomoskovskogo zavoda po obrabotke semyan kukuruzy (for Shelest).4.Altayskoye upravleniye khleboproduktov (for Osnovikov). 5.Ministerstvo khleboproduktov BSSR (for Kalachev).
6.Luganskoye upravleniye khleboproduktov (for Doktorman). 7.Kuybyshevskoye upravleniye khleboproduktov (for Zhityayev).

(Grain elevators) (Grain milling)

21658

s/109/61/006/003/013/018 E032/E314

3,1710 (1041, 1126,1127) **AUTHORS:**

Kalachev, P.D. and Salomonovich, A.Ye.

TITLE:

The Radiotelescope of the Physics Institute of the AS USSR, Incorporating a 22-m Parabolic

Reflector

PERIODICAL: Radiotekhnika i elektronika, 1961, Vol. 6, No. 3, pp. 422 - 429

The radiotelescope is in the form of a parabolic TEXT: reflector having an aperture of 22 m and a focal length of 9.525 m (angular aperture $2\Psi = 120$ deg). The design of the radiotelescope was carried out at the Physics Institute of the AS USSR and it was brought into use in the summer of 1959. Various radio-astronomical observations have already been carried out, including the 0.8 cm radio emission of Venus. The reflector can be rotated between -5 and +95 deg relative to the horizon. Azimuthal rotations of + 80 deg are also possible. The radiotelescope incorporates, a 110 mm refractor, used as an optical telescope-guide. The following facilities are available: a) automatic tracking of a given point on the Card 1/2

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The Radiotelescope

celestial sphere to within \pm 30 deg; b) semi-automatic tracking in accordance with the programme fed in by the operator over given time intervals; c) alignment in a given direction from the control cabin; d) alignment in a given direction and motion with a given velocity controlled by the operator in the visual-alignment cabin. Angles can be measured to within 7.5". Photographs of the telescope are reproduced and a brief description is given of some it its mechanical parts. Further details are given in the next abstract. There are 6 figures and 1 Soviet reference.

ASSOCIATION:

Fizicheskiy institut im. P.N. Lebedeva AN SSSR

(Physics Institute im. P.N. Lebedev of the

AS USSR)

SUBMITTED:

May 10, 1960

Card 2/2

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8/504/62/017/000/001/007 1046/1246

AUTHORS:

Kalachev, P.D. and Salomonovich, A. Ye.

TITLE:

The radiotelescope with the 22-meter reflector

SOURCE:

Akademiya nauk SSSR. Fizicheskiy institut. Trudy, v. 17. Moscow, 1962. Radioastronomiya, 13-41

TEXT: The author reviews the design, the mounting and the adjustment of the 22-m radio-telescope of the Fizicheskiy institut AN S.SR (Physical Institute AS USSR). The total weight of the telescope is 463 tons, the maximum height is 26.7 m. The reflecting surface is manufactured of 6 mm aluminum sheets. For azimuthal centering, the telescope can be rotated slowly, at a rate of 1 revolution per 24 hours, or rapidly, at a rate of 18 degrees per minute; for position centering, the telescope can be rotated at a rate of 1 revolution per 24 hours or at a rate of 25.5 degrees per minute. The instrument is suitable for operation in a wide range of centimeter waves starting with ~1 cm. On more than ±3.5 mm. There are 23 figures.

Card 1/1

ACCESSION NR: AP4018702

8/0145/63/000/012/0049/0058

AUTHOR: Kalachev, P. D. (Chief designer)

TITLE: Possibility of designing a rigid parabolic antenna for a large parabolic reflector

SOURCE: IVUZ. Mashinostroyeniye, no. 12, 1963, 49-58

TOPIC TAGS: parabolic antenna, rigid parabolic antenna, parabolic reflector, antenna design, deflection, load, bearing

ABSTRACT: An attempt was made to design a parabolic reflector subject to small deflections under the dead load. Proper design relation of its body and suspension structure to the bearing and rotating members was desired. Total deviation of reflecting surface from the required form represents a sum of four factors:

1) material and process inaccuracies; 2) dead-load elastic deformations; 3) wind-load deformations; 4) temperature deformations. To assure its maximum rigidity, the reflector should be supported by eight radially symmetrical bearings shown by points 1-8 on Fig. 1 of the Enclosure. These bearings should be located on the chords of the concentric structural members equidistant between the radial members.

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ACCESSION NR: AP4018702

Proper design calls for determining the smallest number of bearings necessary to assure the allowable amount of deformation and for a suspension system which would allow the distance from one bearing to another to remain constant. The first condition may be met by elementary methods of structural mechanics; the second is solved with the help of equation: $Z = (4 \times 2^m)n + K$, where Z is the number of bearings, n is the number of concentric structural polygons, (4×2^m) is the number of bearings in each polygon, and K is the number of central bearings (K = O or 1; m = 0, 1, 2, 3). An example of design for a reflector with 66-m diameter is briefly presented. This size would necessitate the use of 17 bearings uniformly distributed in a circle with D=0.85 D_{refl} . The author concludes with the statement that a knowledge of local wind conditions and temperature gradients is necessary for proper solution of the problem. He believes the design method involving the determination of the proper number of bearings would eliminate prohibitive deflections in the reflector members. The main advantage of this design method stems from the fact that the radially symmetrical bearings are used to support a radially symmetrical structure. The method would eliminate the need for complex provisions to be used in compensating for elastic deformations. It could be applied to reflectors with 100-m diameters or larger, which would be operated through servomechanisms. Orig. art. has: 5 figures and 6 equations.

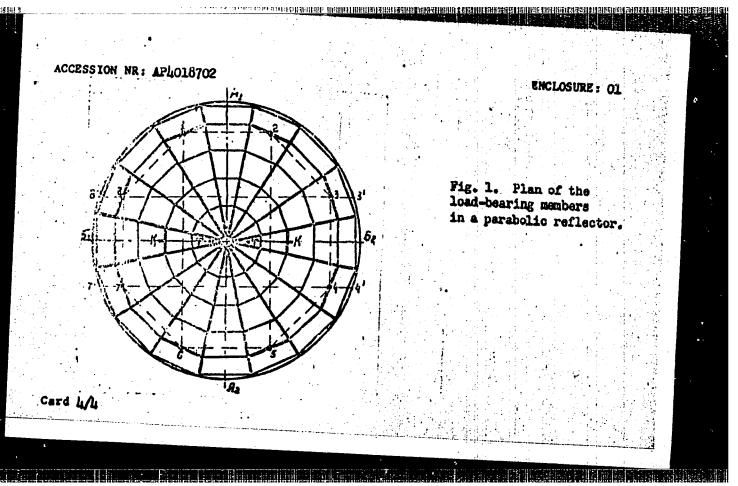
Card 2/4

ACCESSION NR: AP4018702

ASSOCIATION: Fizicheskiy institut Akademii Nauk SSSR (Physics Institute, Academy of Sciences, SSSR)

SUBMITTED: 26Jul62 DATE ACQ: 27Mar64 ENGL: 01

SUB CODE: SD, AP NO REF SOV: 006 OTHER: 002



KALACHEX, P.D.

ACCESSION HR: AP3000164

8/0141/63/000/002/0398/0401

AUTHOR: Kalacher, P. D.

TITLE: Some construction possibilities in building a rigid large dismeter parabolic antenna

SCURCE: Izvestiya vyznich uchebnykh savedeniy, rediofizika, v. 6, 20, 2, 1963, 398-401

TOPIC MAGS: redio estronomy, antenna, parabolic entenna, static deflection

ABSTRACT: A general multisupport construction is proposed for a large-diameter parabolic entenue for the purpose of minimizing the dish distration caused by static deflection at various entenue attitudes. As a theoretical example, a 66-m diameter reflector in examine an arrangement of supports in which the distance from the dish edge to an outer support does not exceed 4-5 m and the distance between supports is between 10 and 14 m, a total of 17 support manhers is necessary. These are arranged in a main outer and suciliary inner circle of

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ACCESSION NR: AP3000164

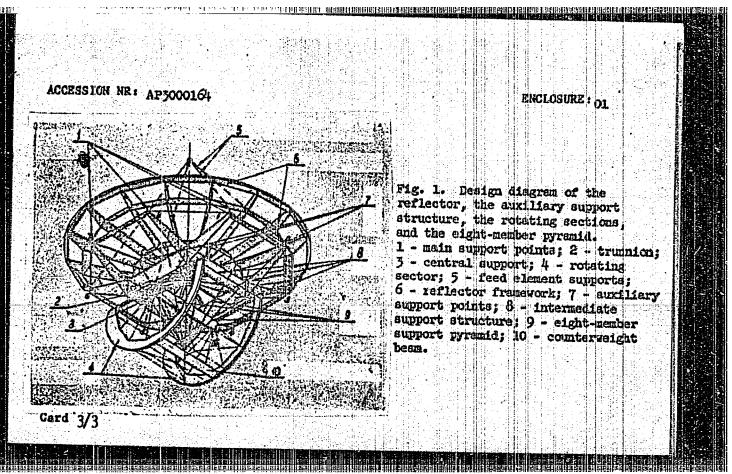
supports plus one central member, as shown in the illustration. Load members a from the inner support circle converge symmetrically at the center of counterveight been 10 and are considered rigid enough that the pluss of the inner support points has negligible deflection under any extense position; the problem thus reduces to compensating for distortions in the region of the outer support circle. This is achieved by adjusting the counterveight load members as a function of elevation position. A further kinematic compensation, which will maintain the plane of the outer support points parallel to that of the inner points, is possible by automatically shifting the convergence point of load numbers a slong the counterveight beam as required. By this technique a given degree of parabolicity is maintained for any elevation of the automatorie, art. has: I figure.

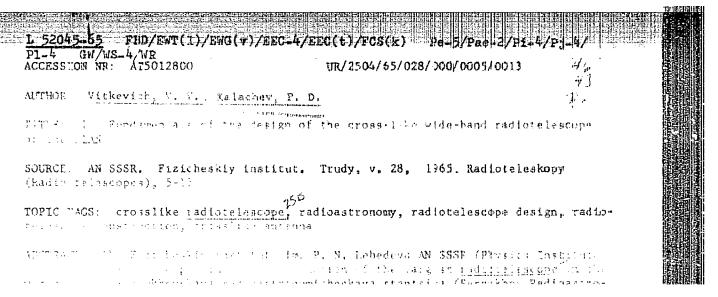
ASSOCIATION: Finicheskly institut im. P. N. Lebedeva AN ESSE (Physics Institute AN SSER)

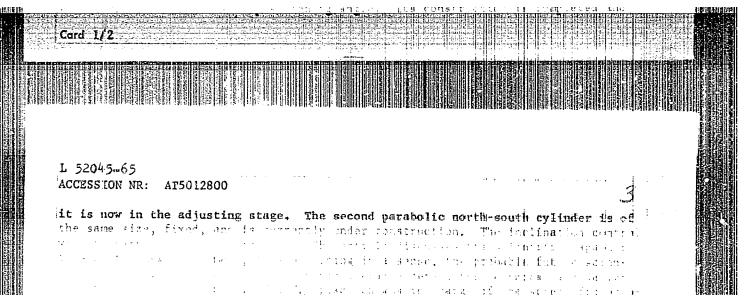
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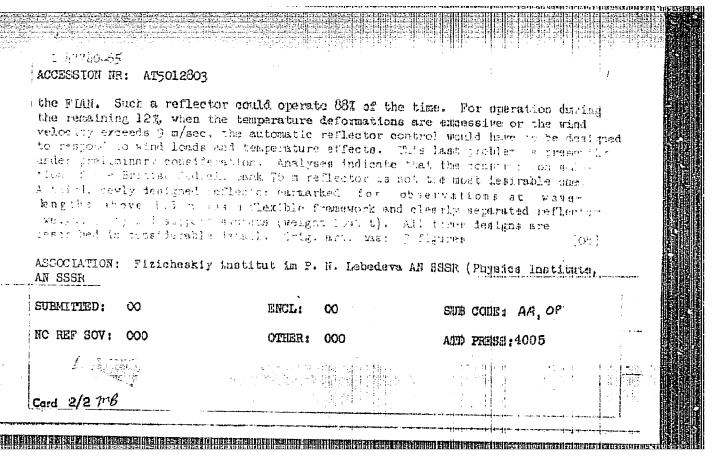






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	TOPIC TAGS: paraboconstruction, radio e ABSTRACT: The function of an and reconstruction of an	telescope (ther develo (injatoly d	ppment of radio to etcal radio to the control of th	a astronomy j Teacypes. P and mile, every edlore, mangal teacy ession	Lepandu on he produkt on the product of the contract of the co	udwares Obstyles Lance Obstyles Complete	J. the distance of the second	



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P1-4 GN/W5-4 WK
ACCECTION SR 173011300 UR/2504/65/028.000/0046/0050

AUTHOR: Vitkevich, V. V., Kalachev, P. D.

TITLS: 5. Parabolic reflector with screens

SCURCE: AN SSS1. Fizicheskiy institut. Trudy, v. 28, 1365. Radiotaleskopy (Radio telescopes), -6-50

TOP: FigS: screened parabolic reflector, low side lobe antenna, low interference antenna, radiotelescope sufficient purpose the theory of parabolic reflectors and the existing radiotelescopes utilizing such reflectors (see, e.g., F. B.

Valacher: T. A. Salampourich. Radiotekhnika i elektronika, 1951, 6, no. 3; 3, 1.

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P1-4/P1-4/P1-4 GM/MS-4/MR ACCESSION NR: AT5012805 UN/2504/65/028/d00/0051/0089 AUTHOR . Kalachiv, P. D. D. TITLE: 6. Problems in the design of high-resolution parabolic appends SOURCE: AN SSSR. Fizicheskly institut. Trudy, v. 28, 1961, Bathate eskapy (Budfa telescopes), 51-89 TOPIC TAGS: parabolic reflector design, high resolution parabolic autenna, low deformation parabolic mirror, parabolic reflector accuracy, rafflector construction, belanced deformation compensation, obliquely symmetric reflector deformation, refloorer wind load, ruflector comperature deformation, radiogelescope construction ABSORACTS. Among various skilling radioastronomical anternam, those leads on the collection in the constraint alvantages. They are notice comments as as a second of the constraint of the constraints. preserved object, have a low house temperature, etc. However, largues ale verificit of Fig. antennas (above 20 m in drameter) are difficult to design and build. Consequencly, the author accempted to develop constructive solutions which would lead to of testion of parametric one to consider are tightly according and and the same night successive rigid to maintain the correct parabolic shape. The accuracy requiretent injuses on the refracting envioce of a parabolic reflector, the problem of

L 52040-65

ACCESSION NR: AT5012805

reflector deformations, and different reflector constructions and their support are studied from a theoretical point of view. The author goes on to propose a new type of reflector supports, discusses reflector reinforcements, describes the operation of the eight-bar pyramid during the horizontal and vertical orientation of the reflector, discusses the kinematically balanced companients. If obliquely symmetric reflector deformations caused by its own weight, studies various constitued tions for the irradiator support, surveys the temperature deformations of the

the problem one needs to know the wind loads for all incidences and the temmerature gradients to be expected during use; b) one can solve the partial problem — done structing a reflector of considerable size with small deformations due to its own weight — by millizing a multisupport mounting of the reflector on its rotating and sarrying mechanism; c) the basic characteristics of a multisupport mounting are its radially symmetric distribution relative to the reflector (radially symmetric) framework and its ability to stay in mutually parallel planes parallel to the reflector spenies, even diring abliquely symmetric loads (this is achieved by the

Card 2/3

L 52040-65 ACCESSION NR: AT5012805

of such a symmetric scheme is that it does not require any complex devices for the compensation of elastic deformations and is, consequently, very reliable, element ports of this type [as tested on the FIAN 60-meter instrument) can be used for reflectors of 10cm itameter and targer if one aids a sevenechanism compositing the clastic deformations by arring on one or two nodal points (dogs., at the vertices of pyramils). The author sincerely thanks senior scientific collaborator of the laboratory A. Ye. Salomonovich for numerous valuable remarks concerning the content of the paper and for his interest, and the compositers of the Konstruktorskoys byurp laboratorii radioastronomii (Design bureau of the radioastronomy laboratory), Engineer-Designers V. T. Yevdokimova, I. A. Yemel'yanov, V. F. Nazardy, and V. J. Shubeko for their contribution to the development of the above-mentioned elements and for the organization of the present paper." Orig. art. has: 64 formulas and

de certe de la Dalle de la

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute of the Academy of Sciences, SSSR)

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OTHER: 007

Card 3/3

CIA-RDP86-00513R000620010011-0 "APPROVED FOR RELEASE: 03/20/2001

Pe-5/Fa4-2/21-4/11-4/ FBD/EWT(1)/EWG(v)/EEC-4/EEC(t)/FCS(k) Pl-4 GW/WS-2/WR UR/2504/65/028/000/0104/0115 ACCESSION NR: AT5012808

AUTHOR: Kalachev, P.D.; Salomonovich, A. Ye.

TITLE: 9. Increasing the effective area of radio telescope antennal by reducing the scattering on the braces

SOURCE: AN SSER. Fizicheskiy institut. Trudy, v. 28, 1965. Radioteleskopy (Radko telescopes), 104-115

TOPIC TAGS: radio telescope entenna, effective antenna area, mirror support scattering, scattering power loss

acattering power 1055

ABSTRACT: The effects of the edge and braces on the effective antenna area were studied. in several earlier papers (see, e.g., A.I. Potekhin, Sov. radio, 1948). However, the

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	ACCESSION NR: AT5012808	
ı	carries only the secondary re-emitting mirror; a decrease in the sixt of the braces	
	carries only the secondary re-emitting introl; a decrease in that or a carries only the secondary reduces the amount of the scattering. The laboratory of radio astronomy	

formulas, 4 figures, and 2 tables;

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedava An ESSP (Physics Instituts, AN ESSR)

BUBMITTED: 00 ENCL: 00 SUB CODE: AA, EC

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E 52032-65 FBD/ENT(1)/ENG(V)/EEC-4/EBC(t)/FCS(k) Pe-PPae-1/11-6/F
P1-4 GW/WS-4/WR

ACCESSION NR: AT5012915 UR/2504/65/028/000/0183/0203 47

AUTHOR: Kalachev, P.D.

This is a Washing before allows of the 23-moter parabolic sellector of the FLAN HT-22

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AUS TR: 1 Selic deformations due to the weight of the structure of the Z2-meter selector deformation. Even in the selector belong the collection of the structure of the Z2-meter selector deformation. Even in the

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ASSOCIATION: Fizicheskly institut im. P. N. Levedeva Akademii nauk ISSR (Physics:
Institute of the Academy of Sciences, SSR)

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SUB CODE: AA

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OTHER: 003

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L 52381-65 FED/EWT(1)/EWG(V)/EEC-4/EEC(t) Fe-5/Pae-2/F1-4 GW/W5-4

ACCESSION NR: AT5012816 UR/2504/65/028/000/0204/0115

AUTHOR: Kalachev, P. D.

TITLE: 17. Elastic deformations due to gravity during the werthal orientation of a parabolic reflector on a four-point suspension (obliquely symmetrical load)

SOURCE: AN SSSR. Fizicheskiy institut. Trudy, v. 28, 1965. Radinteleskopy (Rad. telescopes), 204-115

TOPIC TAGS: redictelescope reflector design, parabolic reflector, reflector rediction are redicted deformation, rotating reflector, could be a taged on rediction of the resistance of the resis

ABSTRACT: The elastic deformations of a reflector caused by its own weight are a function of the angle of rotation around the horizontal axis and are maximal for the carticle provides at the research (abliquely symmetrical leaving). The consists of the supporting transport of the supporting transport of the supporting contained by its two weight. The peculiarity of the method is that the beam-garder spatial system is calculated by reducing it to the calculation of plane beam and girder elements. The reflector frame under study, supported at four points,

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ACCESSION NR: AT5012816

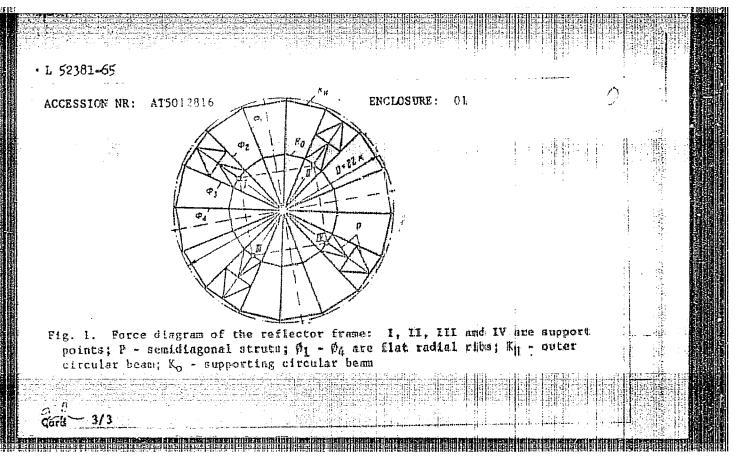
is shown in Fig. 1 of the Enclosure. Orig. art. has: 26 formulan, 3 figurand 4 tables.

ASSOCIATION: Finicheskiy institut im. F. N. Lebedeva Akademii nauk SSSM (Physics Institute of the Academy of Sciencea, SSSR)

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NO REF SOV: 007 OTHER: 000

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620010011-0"



5(4)8(1)

AUTHORS:

Lapik, V. S., Kalachev, P. M.

SOV/76-32-10-34/39

Silkin, Yu. A., Chmutov, K. V.

erink a kiran era fregi har diare eskirala kelena alimamiani ililla sha ilillah a cirili ka a si ma a kiran ki

TITLE:

Laboratory Thermostat With Independent Current Supply (Laboratornyy termostat s avtonomnym pitaniyem)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 10, pp 2455-2455 (USSR)

ABSTRACT:

Thermostats, connected to a circuit and in working use must be periodically controlled every few days. A thermostat is described which is supplied by an accumulator and which has a special heat insulation. The vessel to be controlled is put into a Deward (D'yuar) container filled with e.g.,

glycerin. The use of glycerin makes possible operation up to

300°. The heater (6 watt) is in the thermostat liquid

(glycerin) and is fed by a 6-volt storage battery. The heater can be in spiral form and made of chromium/nickel. An ordinary relay scheme (Ref 1) serves for its control. The mixing through can be carried out by an air current (from a steel flask with compressed air). The thermostat described needs 2.5 - 3 watt at a temperature control of 75° for a liquid volume of 100ml.

Card 1/2

Laboratory Thermostat With Independent Current Supply SOV/76-32-10-34/39

The volume of the thermostat liquid is given to be 11. The accuracy of temperature control amounts to \pm 0.25 and may be increased to \pm 0.1 (by some modifications). There is 1 reference, 1 of which is Soviet.

SUBMITTED:

February 27, 1958

Card 2/2

28 (4)

AUTHORS:

Chmutov, K. V., Lapik, V. S.,

SOY/76-33-7-32/40

Kalachev, P. M., Silkin, Yu. A.

TITLE:

A Self-compensating Diaphragm Gauge

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1655 - 1656

(USSR)

ABSTRACT:

A diaphragm gauge with automatic pressure compensation is described here (Fig). Pressure measurement is carried out by means of a thin membrane. The pressure change is transferred from the membrane to a mercury column, which puts a MN-145A-motor into operation. The latter lifts or lowers (according to the direction in which the membrane moves) a vessel filled with Hg or another liquid, which results in pressure balance. A relay that regulates the performance of the direct-current motor MN-145A is given in a scheme (Fig). It may also be applied to condenser alternating-current motors, e.g. to the type RD-07. For the application of a motor of the type SRD-2, however, the scheme of this relay must be somewhat modified. There is 1 figure.

Card 1/2

A Self-compensating Diaphragm Gauge

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii, Moskva (Academy of Sciences of the USSR, Institute of Physical Chemistry, Moscow)

SUBMITTED:

Card 2/2

KALACHRY, P.N. Improving natural meadows and pastures. Zemledelie 7 no.4:75-76 Ap '59. (MIRA 12:6)

1. Glavnyy agronom Dubovskoy rayonnoy inspektsii po seliskomu khozyaystvu.

(Pastures and meadows)

Ap 159.

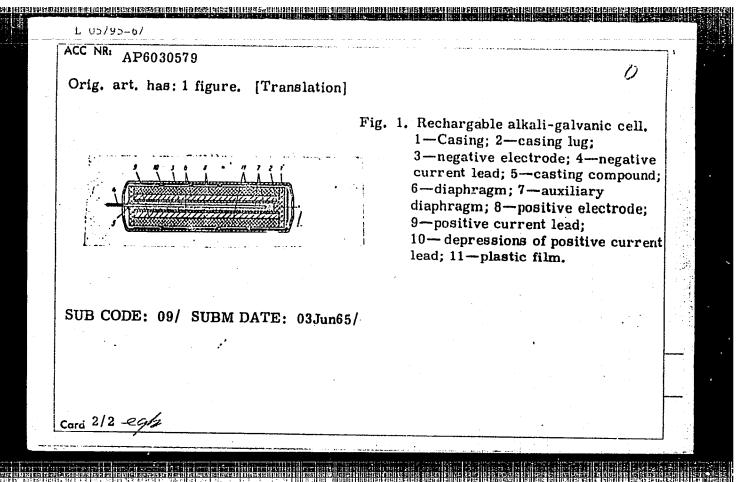
KALACHEV, Rademir Nikitovich, kand.ekonom.nauk; DOLGACHEV, Petr Il'ich, bukhgalter; KUKLIN, P.V., red.; IZHBOLDINA, S.I., tekhn.red.

[Monetary payment of wages on the "Sovetskaia Rossiia" Collective Farm] Denezhnaia oplata truda v kolkhoze "Sovetskaia Rossiia." Stalingrad, Stalingradskoe knizhnoe izd-vo, 1960. 20 p.

(MIRA 14:1)

l. Kolkhoz "Sovetskaya Rossiya" Uryupinskogo rayona Stalingradskoy oblasti (for Dolgachev). (Collective farms--Income distribution)

L U5795-07 r 00-4/EW[(]) ACC NR: AP6030579 SOURCE CODE: UR/0413/66/000/016/0058/0058 INVENTOR: Kocherginskiy, M. D.; Nen'kova, L. F.; Kalachev, S. L.; Lidorenko, N. S. ORG: none TITLE: Rechargable disc shaped alkali galvanic cell Class 21, No. 184948. [announced by All-Union Scientific Research Institute of Power Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 58 TOPIC TAGS: galvanic cell, rechargable galvanic cell ABSTRACT: An Author Certificate has been issued describing a rechargable disc shaped, alkali-galvanic cell with a negative zinc electrode a positive manganese dioxide electrode and a thick electrolyte diaphragm (see Fig. 1). To improve the electrical ratings, the cell is provided with a casing having a symmethrical lug along the inside perimeter on which the diaphragms rest with the negative electrode between them, while the positive electrodes are arranged above the diaphragm. Card 1/2 UDC: 621, 352, 7



SOURCE CODE: UR/0413/66/000/017/0030/0030 AP6032490 INVENTOR: Kocherginskiy, M. D.; Kalachev, S. L.; Pen'kova, L. P.;

Nabiullina, M. F.

ORG: none

TITLE: Air-depolarized zinc galvanic cell. Class 21, No. 185369 [announced by All-Union Scientific Research Institute of Current Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka)]

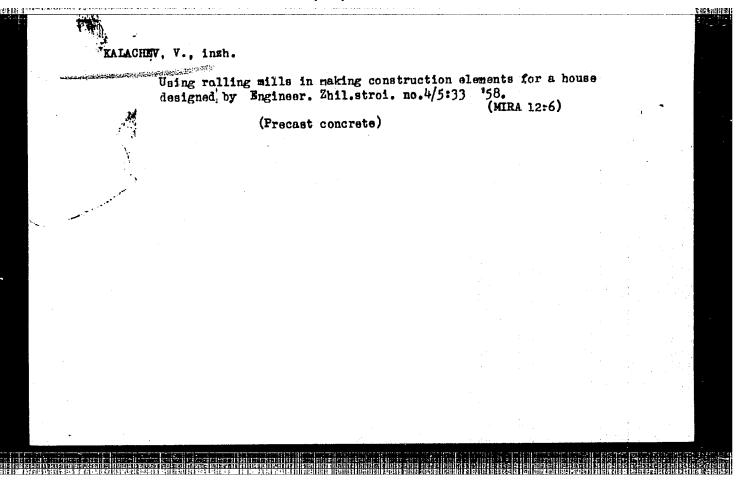
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 30

TOPIC TAGS: galvanic cell, storage battery

ABSTRACT: An Author Certificate has been issued for an air-depolarized zinc galvanic cell which is assembled from series-connected disk elements and has an alkaline thickened electrolyte placed in a plastic container with a hermetically sealed cover (see Fig. 1). To simplify construction and extend cell life, a projection on the cover overlaps

Card 1/2

621,352,7 UDC:



SUSHIKOV, A., ingh.; KALACHEV, V., ingh.

Practices in learning to work with rolling mills. Zhil. stroi.
no.1:9-12 '59.

(Concrete slabs) (Concrete plants--Equipment and supplies)

SUSNIKOV, A., Geroy Sotsialisticheskogo Truda; KALACHEV, V.

The Lipetsk Reinforced Concrete Elements Plant for Industrial Construction. Na stroi. Ros. 3 no.2:10-12 F '62, (MIRA 16:2)

1. Glavnyy insh. Vsesoyusnogo gosudarstvennogo proyektho-konstrukterskogo instituta, Moskva (for Susnikov). 2. Nachal nik tekhnicheskogo oldela Vsesoyusnogo gosudarstvennogo proyektno-konstruktorskogo instituta, Moskva (for Kalachev).

(Lipetsk-Concrete plants)

L 9455-66 EWT(m)/EWP(j) RM	
 ACC NR: AP5025011 , SOURCE CODE: UR/0286/65/000/016/00/5/00/5	
AUTHORS: Takhtarov, G. N.; Trofimovich, D. P.; Gerlakh, L. R.; Podshibyakina, G. S.; Zaborina, N. B.; Lazovskaya, R. A.; Yefimov, V. M.; Kalachev, V. A.; Mayorov, D. A.	
ORG: none	
TITLE: From generator for an installation for continuous mixing and foaming of latex mixtures. Class 39, No. 173911/5 announced by the Scientific Research Institute for	7,47
Rubber and Latex Products (Nauchno-1881edovatel skiy institute 1881807)	
lateksnykh izdeliy) $\int \frac{49}{10}$ SOURCE: Byulleten' izobreteniy i tovarnykh snakov, no. 16, 1965, 75	
TOPIC TAGS: foam generator, latex foamer, latex mixer, SYNTHETIC RUBBER,	1
ABSTRACT: This Author Certificate presents a foam generator (see Fig. 1)	
Fig. 1. 1 - Rotor; 2 - stator; 3 - seals; 4 - body; 5 and 6 - nuts.	
Cord 1/2 UDC: 678.021,1:621,187,115	_

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for installation includes an election disks with concept the circles and cape of many-section cylindrical bod	entric circu cular teeth city while co	on the small and the same of t	on both side a stator disk the physical	is mounted a re is which fit int is. To increase size, the roto	tor in the fo to the clearer the foaming or and stator	rm of capa-	
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SUSNIKOV, Aleksandr Alekseyevich; KALACHEV, Valeriy Aleksandrovich;
LAPIR, Flaviy Al'bertovich; ROZANOV, Nikolay Petrovich;
FOLOMEYEV, Aleksandr Alekseyevich; SHAGINOV, D.L., dotsent,
retsenzent; KOLDOMASOV, Ye.I., red.; DANILOV, L.N., red. izd-va;
MODEL', B.I., tekhn.red.

[Equipment for plants manufacturing reinforced-concrete products]
Oborudovanie savodov zhelezobetonnykh izdelii. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 209 p.
(Precast concrete) (MIRA 13:12)

KALACHEV, V.I.

Methods of teaching about automobiles in the tenth grade. Politekh.
obuch. no.1:31-40 Ja '58.

(MIRA 10:12)

1. Mikhaylovskaya srednyaya shkola Mo.1:Stalingradskoy oblasti.
(Automobiles—Study and teaching)

RALACHEV, Ya. Production-line manufacture of windows and doors. Na stroi. flos. no.8:33-34 Ag *61. (MIRA 14:9) 1. Direktor derevoobrabatyvayushchego kombinata No.7 Glavmospromstroymaterialov. (Moscow--Woodworking industries)

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	Shipment shipping) 1951.	of cargo, Moscow-	on sea. Leningra	Mosokoy ad,	y Transpo	ort (Mari	imo	
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Walachev, Yu.A.

Using propage in place of acetylene in repairing agricultural
machinery. Gaz. prom. 7 no.8:32-34 '62. (MIRA 17:10)

KALACH	KALAGHEV, Yu.A.							
	Consultation. Gaz.		8 no.4:49	63.		(MIRA 17:10)		
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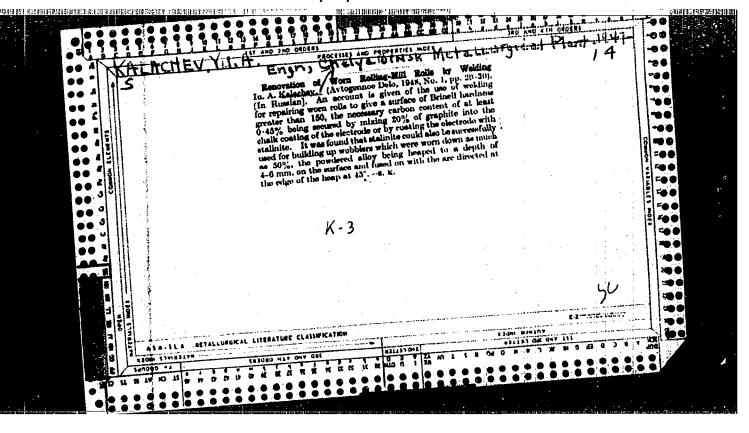
KALACHEV, Yu.A., inzh.

Efficient designs of propane-oxygen nozzles. Mashinostroenie no.4: 74-77 J1-Ag '63. (MIRA 17:2)

1. Mezhotraslevoy nauchno-issledovatel skiy i proyektno-tekhnologi-cheskiy institut avtomatizatsii i mekhanizatsii mashinostroyeniya, Chelyabinsk.

KALACHEV, Yu. A.; IVANOV, N. I.

Polishing of polymethylmethacrylate by oxypropane flame.
Plast. massy no. 5:61 '64. (MIRA 17:5)



KALAGHEV, Yu. A., Eng.

Metal Cutting

Stakhanovite benzo-cutter P. S. Akumushkin. Avtog. delo, 23, No. 7, 1952

Monthly List of Russian Accessions, Library of Congress, November, 1952. Unclassified.

- 1. KALACHEV, Yu. A., Eng.
- 2. USSR (600)
- 4. Mikhaylov, Aleksandr Kuz'mich
- 7. Stakhanovite drill operator A. Ye. Mikhaylov, Avtog. delo, 24 No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. KALACHEV, Yu. A., Eng.
- 2. USSR (600)
- 4. Oxyacetylene Welding and Cutting
- 7. Stakhanovite oxygen cutter F. S. Dukov. Avtog. delo 24, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

CHEV, Yu.A., insh.						
Hew method of preparing tangled Metallurg 5 no.7:20 Jl '60. (Gas welding and cutting)	(Scrap metals)	(MIRA 13:	17)			
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KALACHEV, Yu.A.; BERESNEV, A.T.; LUNEGOV, D.P.

Performance of a kerosene cutter using liquefied gas. Gaz.prom. 6 no.7:
23-24 '61. (MIRA 17:2)

New nozzle for cutting with coke gas. Svar. proizv. no.6:40
Je '61. (MIRA 14:6)

1. Ghleyabinskiy metallurgicheskiy mavod.
(Gas welding and cutting)

KALACHEV, Yu.A., inzh.; BERESNEV, A.T., inzh.; LUNEGOV, D.P.

Propane-oxygen cutting by the K-51 petroleum torch. Swar. proizv. no.7:37-38 Jl '61. (MIRA 14:6)

1. Chelyabinskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (for Kalachev, Beresnev). 2. Chelyabinskiy traktornyy zavod (for Lunegov).

(Gas welding and cutting-Equipment and supplies)

31874 \$/133/62/000/001/010/010 A054/A127

1 2 3 00 AUTHOR:

Kalachev, Yu. A., Engineer

TITLE:

New method of cutting stainless steel

PERIODICAL: Stal', no. 1, 1962, 93

TEXT: Yu. A. Kalachev, Engineer, and Yakimov, Technician, have developed a new method for cutting stainless steel. The conventional K 51 (K51) kerosene cutter or PP 53 (RR53) gas cutter can be used, but unlike the standard method, a 6 - 7 mm diameter low-carbon wire is held in the cutter flame. During the burning of the wire additional heat develops and the iron-oxides forming dissolve the high-melting chrome-oxides of the steel. These are subsequently carried off by the oxygen jet, laying bare the deeper layers of the metal. This method was improved in 1960 by Yu. A. Samarkin and G. S. Yusupov. Instead of using a low-carbon wire, they introduced titanium metal scraps into the cutter flame, which burn on the surface being cut, producing there a high temperature. This causes the chrome oxides to melt and reduces them at the same time. The molten products are removed continuously. There is practically no material which can resist the combined effect of oxygen, molten titanium and its oxides. This thermo-chemical

Card 1/2

TARAN, V.D., doktor tekhn.nauk,prof.; KALACHEV, Yu.A., inzh.

Cutting of stainless steel with standard cutters. Svar.proizv. no.1:
(MTRA 15:3)
34-35 Ja '62.

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
(for Taran). 2. NIIPTIAMASH Chelyabinskogo sovnarkhoza (for
Kalachev).

(Steel,Stainless)(Gas welding and cutting)

KALACHEV, Yu.A., inzh.; BERESNEV, A.T., inzh.; SERGEYEV, I.I., inzh.

Propane-butane cutting at the Chelyabinsk Pipe Rolling Mill. Svar.
(MIRA 15:2)
proizv. no.3:36-37 Mr '62.

1. Chelyabinskiy NIPTIAMMASh (for Kalachev, Beresnev). 2. Chelyabinskiy truboprokatnyy zavod (for Sergeyev).
(Gas welding and cutting) (Chelyabinsk--Pipe mills)

KALACHEV, Yu.A., inzh.

Replacing acetylene by propane in the repair of agricultural machinery. Svar. Proizv. no.1:23-24 Ja '63. (MIRA 16:2)

1. NIPTIAMMASh Chelyabinskogo soveta narodnogo khozyaystva. (Gas welding and cutting—Equipment and supplies)

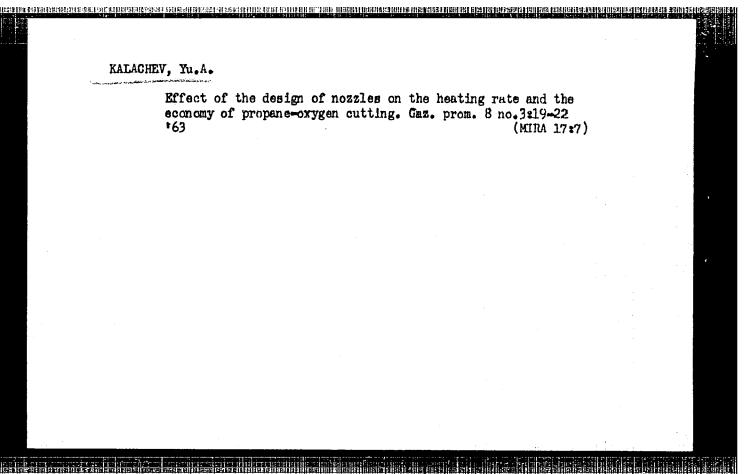
KALACHEV, Yu.A., inzh.

Effect of nozzle design on the speed of cutting and the economy of propane-oxygen cutting. Svar. proizv. no.7:39-40 J1 163. (MIRA 17:22)

1. NIPTIAMMASh Chelyabinskogo soveta narodnogo khozyaystva.

KALACHEV, Yu.A., inzh.

Useful booklet. Svar. próisv. no.8:48 Ag '63.
(MIRA 17:1)



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KALACIEV, Yu.A., inzh.

"Cumulative" effect of a propane-butane flame. Svar. proizv. 12:40 D '63. (MIRA 18:9)

1. Nauchno-issledovatel'skiy i proyektno-tekhnologicheskiy institut avtomatizatsii i mekhanizatsii mashinostroyeniya Yuzhno-Ural'skogo soveta narodnogo khozyaystva.

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KALACHEV, Yu.A.

Replacing mechanical polishing of organic glass with flame polishing. Mashinostroitel no.4231 Ap 64 (MIRA 1727)

PARIYSKAYA, L.V.; KOGAN, F.N.; KALACHEVA, A.P.; CHEREDNICHENKO, G.S..

Prinimali uchastiye: PASHNINA, V.I.; KOROBKOVA, T.N.; BURYA
KOVA, G.I.; AGASHKINA, N.S.; ANTOKHINA, G.N.; ANUROVA, V.Ya.;

BOBINA, M.L.; YKRMAKOVA, Z.P.; YEFREMOV, Yu.A.; POLUTSKAYA,

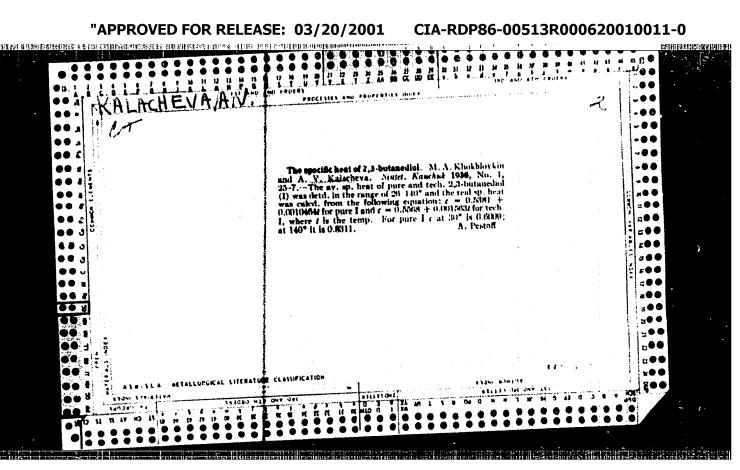
L.G.; SHISHKINA, V.G.; LAPTIYKV, P.P., otv.red.; ROGOVSKAYA,

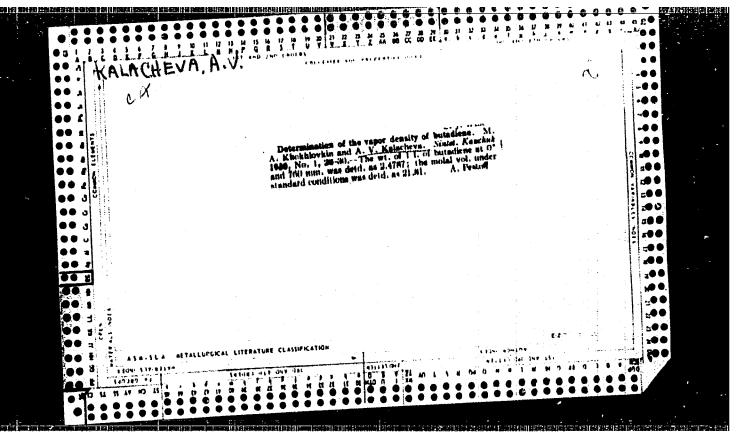
Ye.G., red.; SERGEYEV, A.N., tekhn.red.

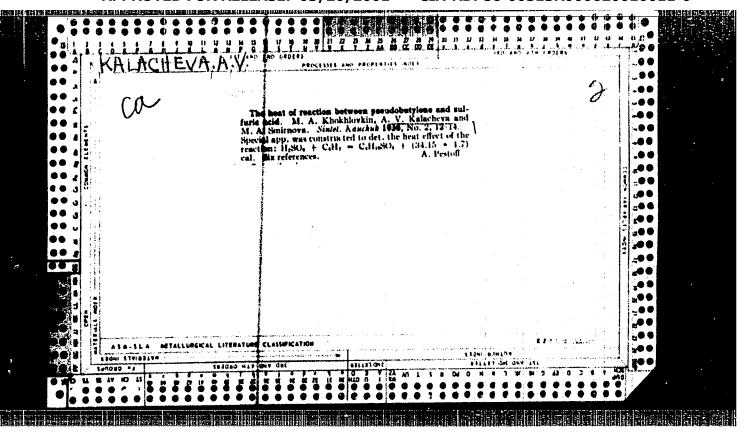
[Agroclimatic reference book on Chita Province] Agroklimaticheskii spravochnik po Chitinskoi oblasti. Leningrad, Gidrometeor.izd-vo, 1959. 131 p. (MIRA 13:2)

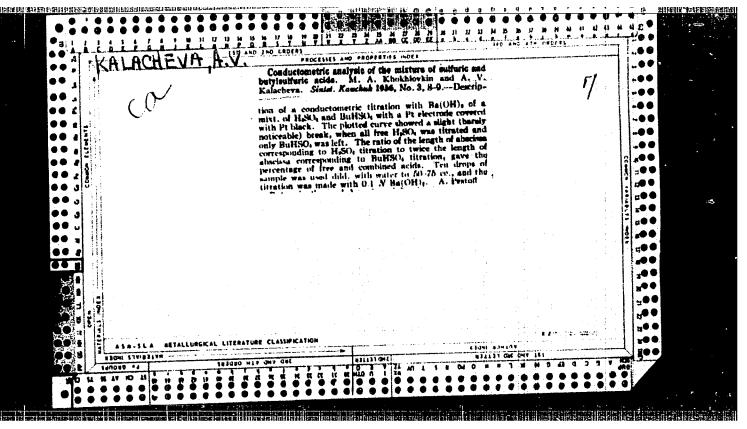
1. Chita. Gidrometeorologicheskaya observatoriya. 2. Starshiy inzhener-agrometeorolog Chitinskoy gidrometeorologicheskoy observatorii (for Pariyskaya). 3. Chitinskaya gidrometeorologicheskaya observatoriya (for Kogan, Kalacheva, Cherednichenko). (Chita Province---Crops and climate)

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LEVITIN, I.A.; POLOSKIN, Ye.N.; KALACHEVA, A.V.; DORONINA, T.P.

Polarographic study of the condensation of resorcinol with formaldehyde in solutions used in the preparation of latex impregnation compounds. (MIRA 15:7)

1. Moskovskiy shinnyy zavod. (Resorcinol) (Formaldehyde) (Polarography)

KALACHEVA, I.N.

Experience in the hygiene of the oral cavity in patients with rheumatic fever. Trudy 1-go MMI 44:115-118 '65.

(MIRA 18:12)
1. Iz polikliniki No.17 Sverdlovskogo rayona g. Moskvy (glavnyy vrach I.I. Gol'verk) i stomatologicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta (sav.- dotsent N.N. Bazhanov).

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